



MovieTool

MPEG-7 Description Tool

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MovieTool is ...

A logical structure composer & MPEG-7 editor

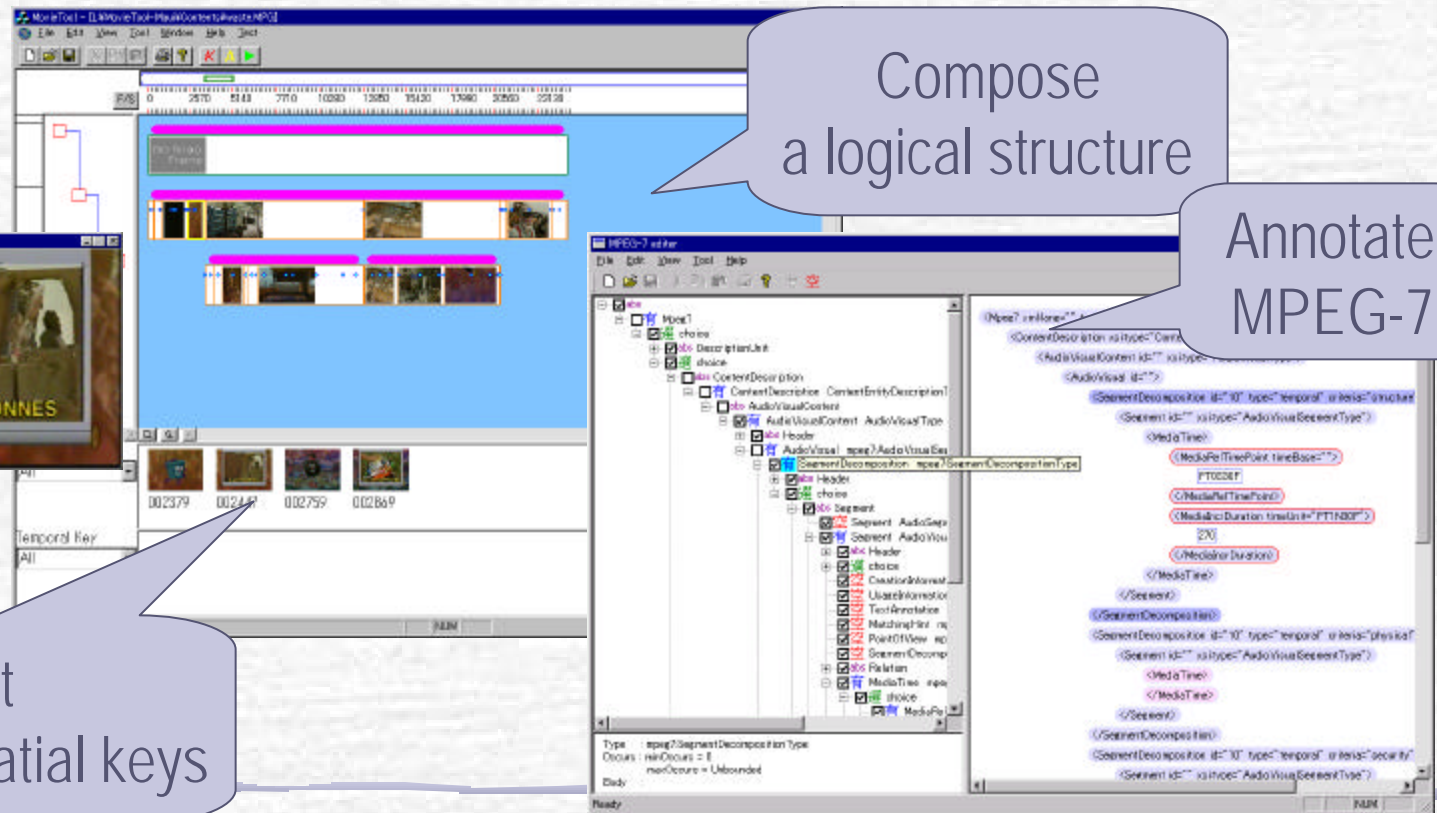
Preview



Detect
temporal / spatial keys

Compose
a logical structure

Annotate
MPEG-7



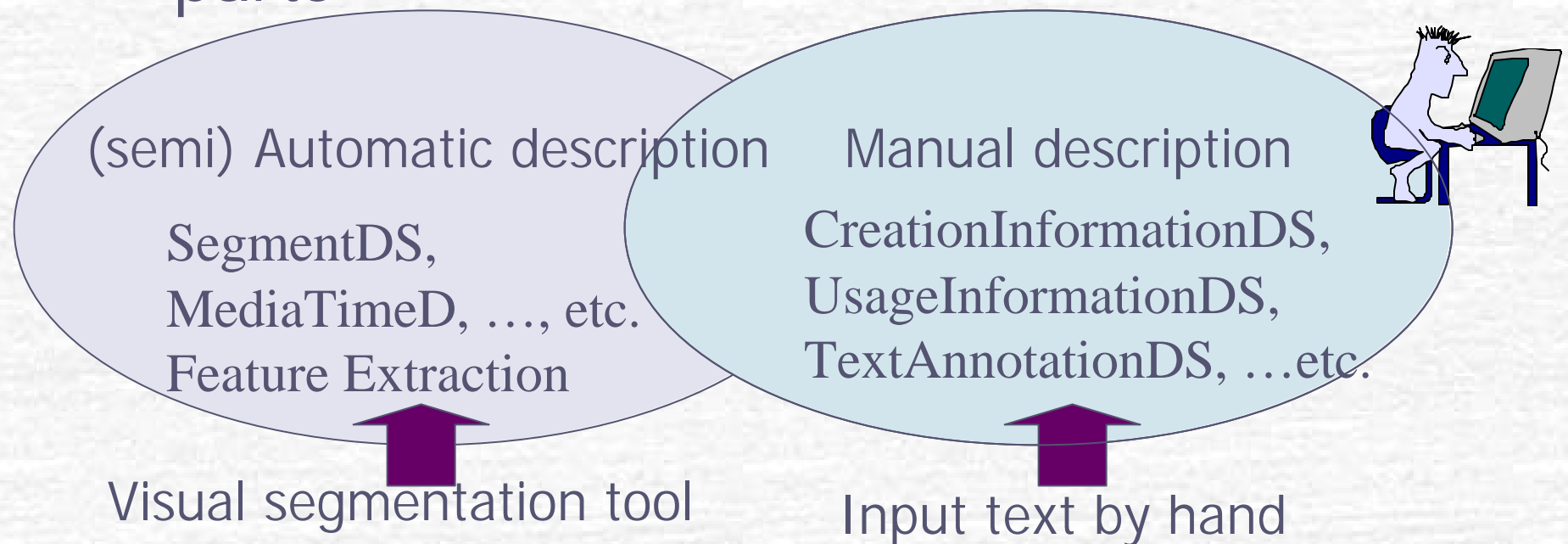
10th March 2001

2nd MPEG-7 Awareness Event

RICOH

MPEG-7 tools

- MPEG-7 DSs/Ds are categorized into two parts



MovieTool's Policy

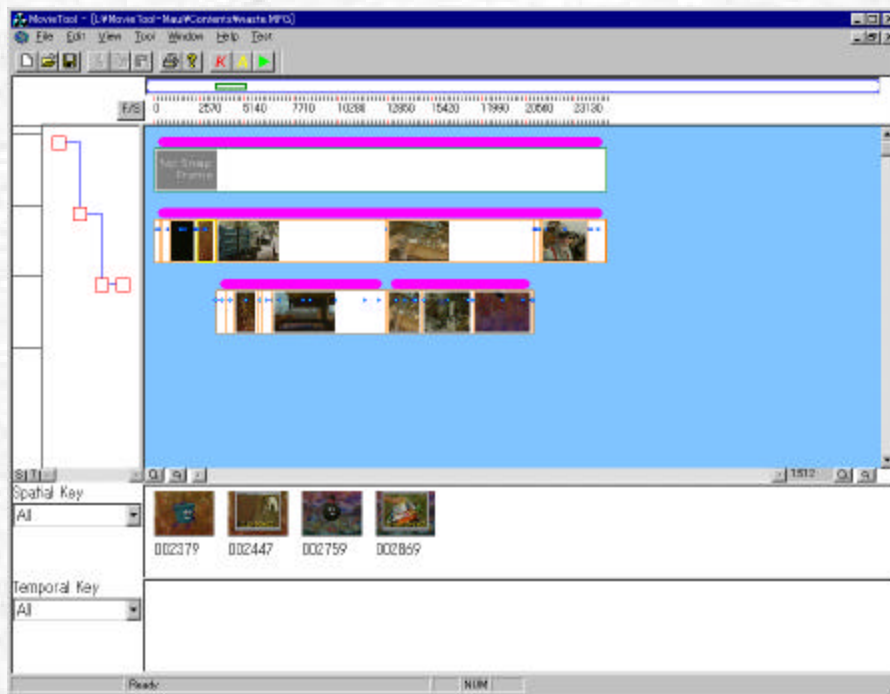
MovieTool has two description approaches

- 1. Logical structure composer
 - ◆ Easy to use if a user does not know MPEG-7 syntax
 - ◆ Construct a logical structure using a visual I/F
- 2. MPEG-7 editor
 - ◆ Edit instance using MPEG-7 DSs/Ds tools
 - ◆ MPEG-7 tools are dynamically generated according to the MPEG-7 schema

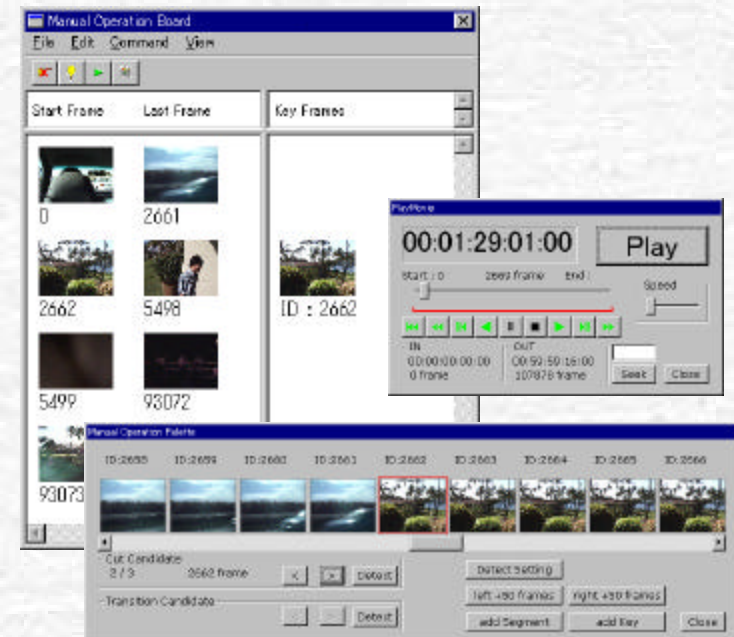
Logical structure composer -1

- ✓ Interactive segmentation tool
- ✓ Assign multiple media instances
- ✓ Construct a logical structure for video
 - Semi-automatic/manual segmentation
 - Cut detection, manual segmentation helper
 - Key frame/range detection
- ✓ Easy visual I/F

Logical structure composer -2



Logical Structure View



Manual segmentation helper

MPEG-7 Editor -1

- MPEG-7 instance editor with hybrid view
 - Instance tree
 - DSs/Ds candidates shown with the instance
- Dynamic mapping structure to/from the composer
- Input and output MPEG-7 instance file

MPEG-7 Editor -2

Hybrid viewer

空 Candidate
有 Instance

Instance

Attribute Editor	
id	10
type	temporal
criteria	structure
overlap	true
gap	true

Attribute editor

The screenshot displays the MPEG-7 Editor application. The main window is divided into three panes:

- Tree View (Left):** A hierarchical tree structure showing the MPEG-7 schema. Nodes are marked with checkboxes and colored labels: '空' (empty) in red and '有' (instance) in blue. The selected node is 'mpeg7:SegmentDecompositionType'.
- Attribute Editor (Bottom Left):** A small window showing the attributes of the selected node. It contains a table with the following data:

Attribute	Value
id	10
type	temporal
criteria	structure
overlap	true
gap	true
- XML View (Right):** A pane showing the XML representation of the selected node. The XML snippet is as follows:


```

      <Mpeg7 xmlns:lang="" type="">
      <ContentDescription xsi:type="ContentEntityDescriptionType">
      <AudioVisualContent id="" xsi:type="AudioVisualType">
      <AudioVisual id="">
      <SegmentDecomposition id="10" type="temporal" criteria="structure">
      <Segment id="" xsi:type="AudioVisualSegmentType">
      <MediaTime>
      <MediaRelTimePoint timeBase="">
      PT0S30F
      </MediaRelTimePoint>
      <MediaIncrDuration timeUnit="PT1N30F">
      270
      </MediaIncrDuration>
      </MediaTime>
      </Segment>
      </SegmentDecomposition>
      <SegmentDecomposition id="10" type="temporal" criteria="physical">
      <Segment id="" xsi:type="AudioVisualSegmentType">
      <MediaTime>
      </MediaTime>
      </Segment>
      </SegmentDecomposition>
      <SegmentDecomposition id="10" type="temporal" criteria="security">
      <Segment id="" xsi:type="AudioVisualSegmentType">
      
```


Describing video content

